

2014 Chevy Silverado 1500

The GM side-milled key system is common on many newer GM and GMC vehicles. The 2014 Light truck line will introduce a new 10-wafer side-milled key and a new code series. The new Code Series is V0002-5718. The Strattec Groove, or keyway, is HU102. This article will illustrate the opening procedure, disassembly, cylinder removal, and the easiest method of creating a key for this vehicle.

Duplication of side-milled keys will require a side-milling duplicator. Origination, by code or by discovering the bitting through disassembly will require a side-milling duplicator and a set of "Depth and Space" or "Pattern Keys." Side-milled keys may be originated using an automated N.C. (numeric controlled) code cutting key



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machine. Side-milled keys can also be made using a Clue™ device, by creating a pattern key on an HPC 1200CM code machine, then tracing the pattern in a side-milling duplicator, over the desired high security key blank. A code machine and a high security (side-milling) duplicator will be required to make these keys.

Diligent search was made to find depth and space keys for the new GM 2-track 10-wafer side-milled configuration, using the V0002-5718 Code Series, but no depth and space keys were found. High Security N.C. code machine manufacturers were polled, to find one that had current programming to create the 10-wafer key, but none were found with the ability (current programming) to cut this key. The Clue™ device, by Sieveking Products Company, of Rockford Illinois was the only manufacturer to return our call. The Clue™ code-card for the new GM system is currently being supplied to Clue™ Universal Side-Milled Key System owners as a “no charge item.” The new Code Card, #015a was received in “pdf” format and printed within an hour of our request. That’s fast service. Updating the Clue™ system only required the new Code-Card. Contact Sieveking Products Company

at: Bob@sievekingprodco.com, or see the Clue™ on their website at: www.sievekingprodco.com. Tell the operator that you read about it in *The National Locksmith* magazine, NLAA association newsletter. The new card is free.

The side-milled key is fast becoming the norm. As soon as we are squared away with one configuration, a new key is introduced. The HU102 key uses the same basic dimensions as the HU100. Two more spaces have been added

to the rear of the 8-wafer key and the key has been lengthened to accommodate the extra cut positions. The HU100 (short) key can be used as a work key. It will operate the door cylinder when it is out of the door, and it will operate the ignition if the cylinder cap is removed. A longer, more suitable “work key” is not currently available.

The 2014 Silverado 1500 (New Body Style) has six lock cylinders. They are the: Door cylinder, Ignition cylinder, End-gate locking cylinder, Spare Tire locking cylinder, Stowage cylinder and Glove Box (dash stowage) cylinder. All cylinders are keyed alike from the factory. If the truck is equipped with a center seat between the two front seats, the stowage box under the seat will be found to have a plastic cylinder.

The door cylinder is mounted at the rear of the door release handle, (*see photo 1*).



Photo 1



Photo 2

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offering rebates or discounts to
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Goldberg at the Home Office

A rubber plug in the edge of the door, adjacent to the door release handle, conceals a T-25 Torx™ / Hex Head machine screw. Turn the screw counterclockwise to free the lock cylinder trim piece. It is not necessary to completely remove the attachment screw. There is no need to risk dropping the screw into the door cavity, (*see photo 2*).

When the attachment screw is backed out far enough, the door cylinder trim can be removed. The lock cylinder, however, cannot be removed from the outside of the door. It is retained by a wire “horseshoe” clip inside the door cavity. When the clip is pulled back, the cylinder and its linkage can be removed from the inside of the door. The door cylinder will contain six wafers, in positions 5-10. This information could be used to determine the remaining four biting positions of the complete key, but it is insufficient to limit the number of possible combinations to make this practical. Using cuts 5-10 as a search criteria, returned from 2 to 4 possible key bittings for the complete key. Removing the door cylinder may be an option, but there is a better alternative, (*see photo 3*).



Photo 3

To remove the inner door trim, carefully remove the Nose Trim piece at the top of the trim panel. It is retained by metal friction catches. Find attachment trim screws in the Grip Well and behind the Latch Handle. Remove the trim screws. The panel is then retained by plastic friction post fasteners. Carefully lift the panel and separate it from the door. Disconnect the bicycle cable linkage from the latch handle and disconnect the electrical multi connector. Set the panel aside to prevent damage. A wire “horseshoe clip” retains the door cylinder in the plastic handle bolster. Slide the clip rearward to release and remove the lock cylinder.

The lock button, at the rear of the trim panel, does not depress completely flush with the trim panel. To unlock this door, it would be possible to grip the button with a wire “grip tool” to raise it and unlock the door. An alternate method is to wedge the top rear corner of the door with an air wedge and use a long-reach tool to pull the latch handle. Pull the latch handle one time to unlock the door. Pull the handle a second time to unlatch the door. Once unlocked, the outside latch handle will also open the door. Always use caution when wedging any door, (*see photo 4*).



Photo 4

The cylinder plug cannot be removed from the Housing without a working key. To decode the tumblers, read the tumbler heights through the drain hole. Insert a Read Key into the cylinder. All number one depth wafers will be flush with the top of the plug. Wafers with bittings 2-4 will be proportionally higher than the top of the plug. Read the heights to determine the cut depths. Tumblers at the bottom of the plug will be depressed below the top of the plug. There is no top drain hole. Read the alternate depths by judging the distances from the top of the plug to the bottom of the wafers. Use an otoscope to magnify and illuminate the wafers.

The Door Cylinder is keyed in positions 5-10. Because this is a Clutching Cylinder, you may find either positions 5-7-9 at the top of the plug and positions 6-8-10 at the bottom of the plug, or the reverse, with positions 6-8-10 at the top, and 5-7-9 at the bottom. Either way, you will be able to determine the correct bitting for positions 5-10. Create a Pattern Key and cut your first side-milled key using positions 5-10 to confirm your findings. If the key operates the cylinder smoothly, you will have the correct bitting for the door. Enter this information into a code program

to find the remaining “unknown” bittings for positions 1-5. Create a working key by following the suggested “bitting tree” and progressing the remaining cuts until an ignition key bitting is found, (see photo 5).

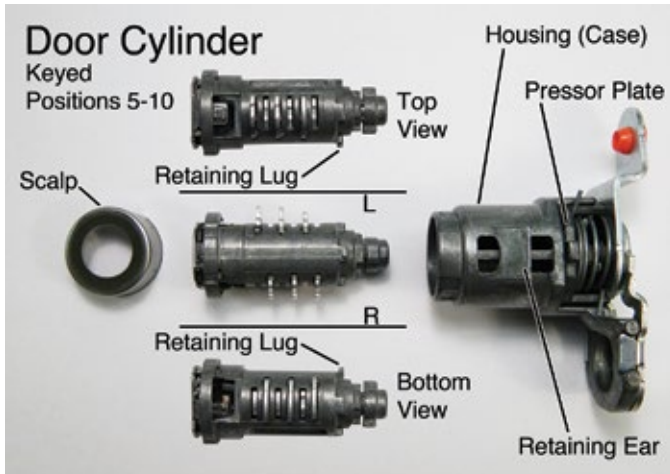


Photo 5

The Read Key is cut with all number one depths over its length. To make a Read Key, create a pattern by setting the depth to #1 and running the cut all the way to the tip of the key. Cut the Ramp as you would for a normal key and duplicate the pattern over a HU100 blank. The Read Key is a necessary tool for reading tumblers in the drain hole. The Read Key is used in all cylinders. Some cylinders must be read through the drain hole while others can be removed and read more easily, (see photo 6).



Photo 6

The GM side-milled configuration is combined using Left and Right “handed” tumblers. The tumbler bitting contacts only the “Right” side of the milled groove. To identify the hand of the bitting, hold the key with the blade pointed away from you. The right side of the groove will be at the right. The left side of the groove will be to the left. The bittings of the tumblers will contact only the right side of the groove. The distance from the right edge of the key blade to the right side of the groove is the bitting depth. The deepest bitting (#4 depth) is closest to the edge of the key blade. The shallowest bitting (#1 depth) is farthest from the edge of the key blade. We can easily “sight read” the bitting of this key to be 4-3-4-2-1-3-2-3-4-3.

These tumblers have “serrations” at the top and bottom of the wafer. The serrations are designed to trap the tumbler as turning tension is applied. This feature makes picking more difficult.

The “Bitting” is the only portion of the wafer visible in the cylinder keyway. The top of the bitting is the contact point of the wafer with the milled groove of the key. The height of the bitting determines the cut depth necessary to solve the shear line.

The “Notch” at the bottom of the #3 and #4 wafers creates clearance for the wafer as the cut key is passed down the keyway. Without this notch, the wafer would bottom on the center rail of the door cylinder and prevent the key from entering the cylinder.

Notches at the top of the #1 and #2 wafers are designed to allow those wafers to rise higher than normal. This raises the bitting in the keyway masking the true bitting height. The notches in these wafers allow the bittings to rise to the same height as the #3 and #4 wafers.

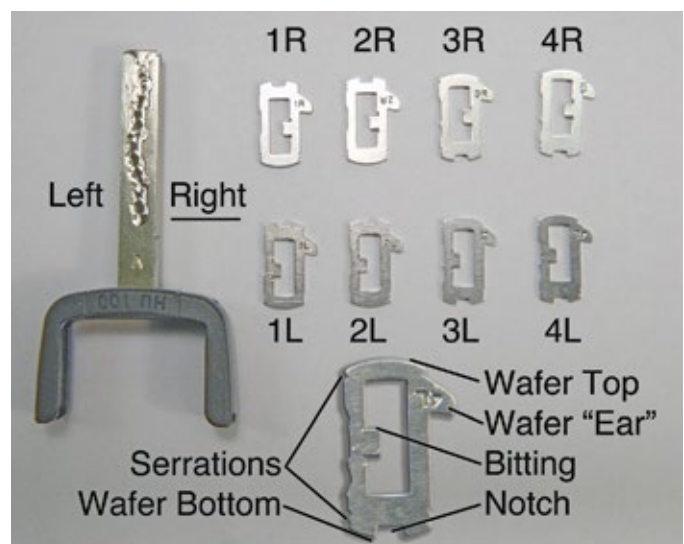


Photo 7

Notice the tops of the wafer ears of wafers #1 and #2. They are lower than the wafer ears found on #3 and #4 wafers. This feature prevents the #3 and #4 wafers from rising to the same height as the #1 and #2 wafers. The biting height is lowered by the biting ear, to appear at the same height as the #1 and #2 wafers.

Differences in the biting heights are what allow a cylinder to be “sight read.” The biting heights, in this keyway, are manipulated by the notches and the differences in the height of the wafer ears, to make all of the bittings appear to be at the same height. This prevents, or greatly complicates, sight-reading these cylinders.

Tumblers are stamped: 1R, 2R, 3R, 4R and 1L, 2L, 3L and 4L. They are not reversible. The tumblers must be loaded to contact only the right side of the milled groove, (*see photo 7*).

Photo 8 shows the door cylinder in the Engaged and Disengaged condition. The door cylinder assembly should not be disassembled.

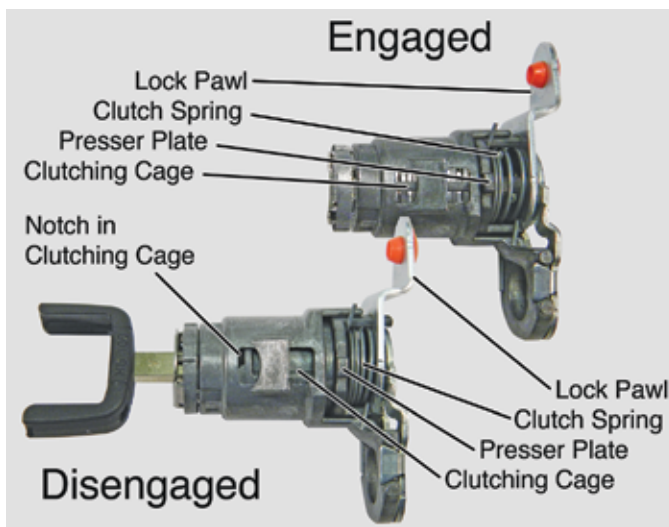


Photo 8

The Lock Pawl connects to the wire linkage of the latch lock. The Clutch spring acts as a “centering spring to bring the cylinder to the key pull position when the key is released. It also acts as a compression spring, to push the Presser Plate forward. The presser plate pushes the Clutching Cage forward to engage with tapered clutching keys in the cylinder body. If the plug is forced, by a tool or the wrong key, the tapered clutching keys will force the clutching cage and presser plate rearward against the action of the clutch spring. As the presser plate moves rearward, it disengages the plug from the lock pawl, allowing the plug to rotate freely. The plug will rotate 180° then

re-engage. This prevents the lock from being forced with a tool or the wrong key.

To remove the cylinder you must have a working key. Insert a small flat blade screwdriver between the presser plate and the rear of the clutching cage. Insert the key and rotate it “counterclockwise” to bring the retaining lug of the plug into alignment with the rear of the wafer compartment. The plug will slide out the front of the cylinder. To install the plug, insert the key and push the plug into the cylinder. Rotate the plug “clockwise” until the presser plate snaps back into position. This will lock the plug in place.

The Gate Cylinder is incorporated into the tailgate release handle. The release handle also incorporates the Back-Up camera (if so equipped). This cylinder contains six tumblers, in positions 1-6. To remove the cylinder, first remove the plastic bead liner, which covers the inside of the tailgate. Remove the metal access cover behind the latch handle to access and remove the handle and lock cylinder assembly. Read the biting through the drain hole at the bottom of the cylinder.

Using cuts 1-6 as the search criteria, returned from 1 to 4 possible key bittings for the complete key. Removing the gate cylinder may be an optionn, (*see photo 9*).

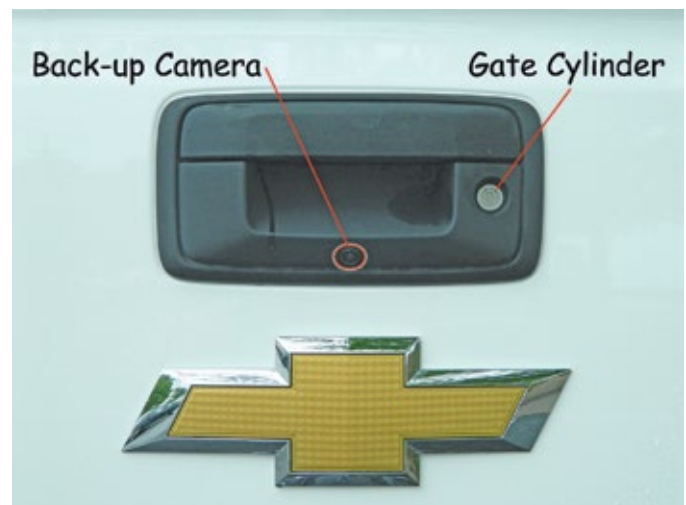


Photo 9

The Tire lock cylinder is mounted in the plastic step of the rear bumper. It is concealed by a hinged plastic weather shield. Open the cover to reveal the lock cylinder. The Tire cylinder contains six tumblers, in positions 1-6.

Using cuts 1-6 as the search criteria, returned from 1 to 4 possible key bittings for the complete key.

Removing the tire cylinder may be an option, but there are better alternatives, (see photo 10).



Photo 10

If the vehicle is equipped with a front “center seat,” you will find a plastic cylinder in the front of the stowage compartment. This cylinder should contain six wafers, in positions 1-6. It was impractical to attempt removal of this cylinder, as the center seat must be removed to gain access.

Using cuts 1-6 as the search criteria, returned from 1 to 4 possible key bittings for the complete key. Removing the stowage cylinder may be an option, but there are better alternatives. I did not see an easy method to release this cylinder, (see photo 11).



Photo 11

The “Dash Stowage” or “Glove Box” is protected by a lock cylinder. When the glove box is opened, the upper and lower lids can be opened. This is a nice feature, (see photo 12).



Photo 12

The glove box cylinder is incorporated into the latch release handle. Lift the handle to reveal the Plug Retainer. Depress the retainer to release the plug for removal, (see photo 13).



Photo 13



Photo 14

The glove box cylinder is removed out the front of the latch handle. The tumblers and plug retainer are retained. Re-install the cylinder, as you see, with the retainer at the bottom, (*see photo 14*).

Use the “read key” to read the bitting of the cylinder through the tumbler cage. It is also possible to disassemble this cylinder by removing the plug retainer and depressing the tumblers “one at a time,” as the plug is pushed out the front of the wafer cage. The glove box cylinder contains four tumblers, in positions 7-10.

Using cuts 7-10 as the search criteria returned from 11 to 24 possible key bittings for the complete key. Removing the glove box cylinder is not a viable option for finding the key. It could be used to find the tip four cuts, if cuts in positions 1-6 were known, (*see photo 15*).

Glove Box Cylinder uses “Tip Four” Tumblers

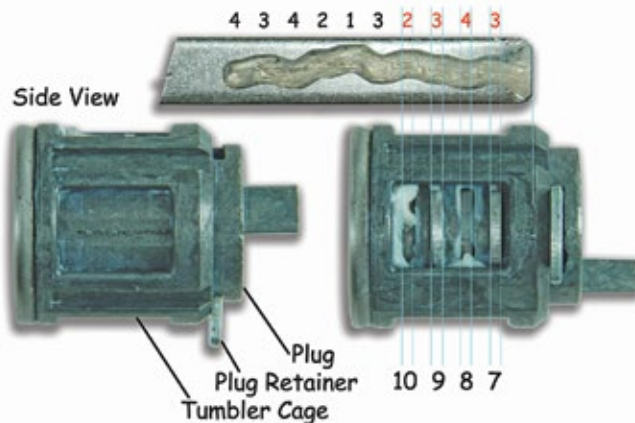


Photo 15

The ignition cylinder is mounted at the right side of the column. This is a Tilt and Telescope wheel. Two levers at the left of the column control the tilt and telescope function. Tilt the wheel down, to gain better access to the ignition, (*see photo 16*).

To access the ignition cylinder release hole it is only necessary to remove the upper portion of the column shroud. Press your thumb against the front of the lower shroud, while pulling up on the upper section half. It will unlatch. Do the same on the opposite side, to unlatch it also. The top half of the plastic shroud will lift up. It is not necessary to remove it. If you do not follow this procedure, you may break the plastic latches. Use care unlatching them.

Rotate the ignition to the ON/RUN position with a working key. Place your foot on the brake pedal to prevent the car from rolling and bring the gearshift



Photo 16

lever down to the “Reverse” position. This will prevent the car from cranking as you rotate the ignition to the START position. . Rotate the ignition to the START position and use an ice-pick tool to depress the retainer. The ignition will pull out of the column at this point. Replace the upper plastic shroud cover, being careful to align the rubber shift lever boot as you snap the covers together, (*see photo 17*).



Photo 17

The tail of the ignition is stamped with the bitting Code. In this case, the code is V1130. The second number is the manufacturing date code.

If this cylinder is picked, it will reveal the key Code. Once the cylinder is picked, it will rotate about 15° and be stopped by the plastic “key sensor switch actuator.” Further forced rotation will shear the plastic button.

Make a “removal” key to fill the keyway and eject the key sensor, to prevent this damage. The “removal” key is made the same way we made the “read key.” Cut

a pattern key to all #4 depths, and duplicate this over an HU100 key blade. The key is cut to all #4 depths, so it will pass below the picked wafer bittings without catching. It will eject the key sensor from the lock plug and allow the ignition to be easily rotated to the start position for removal, (*see photo 18*).

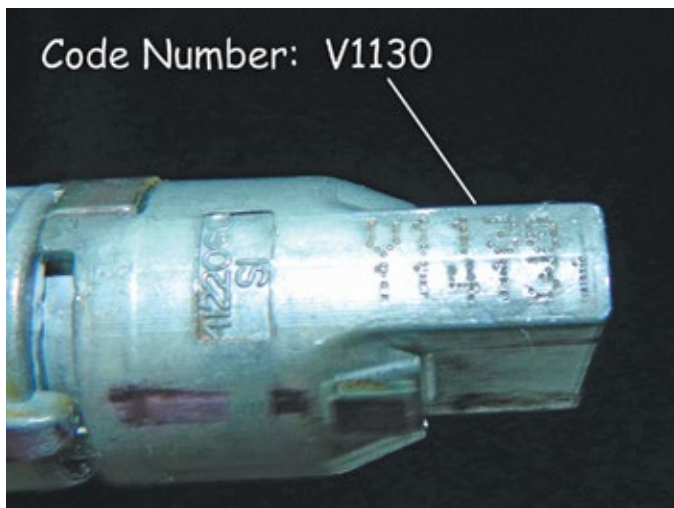


Photo 18

The ignition cylinder has seven tumblers, in positions 1-7. The spring Retaining Lug prevents the ignition from being removed in the START position. The retaining key prevents the ignition from being removed in any other position than the START position. The Locating Key on the rotating tumbler cage keeps the tumbler cage from rotating in the column. Rotate the tumbler cage to align the retaining key and the locating key, and then install the ignition into the column. Rotate the key to the key pull position and remove it to complete the installation, (*see photo 19*).

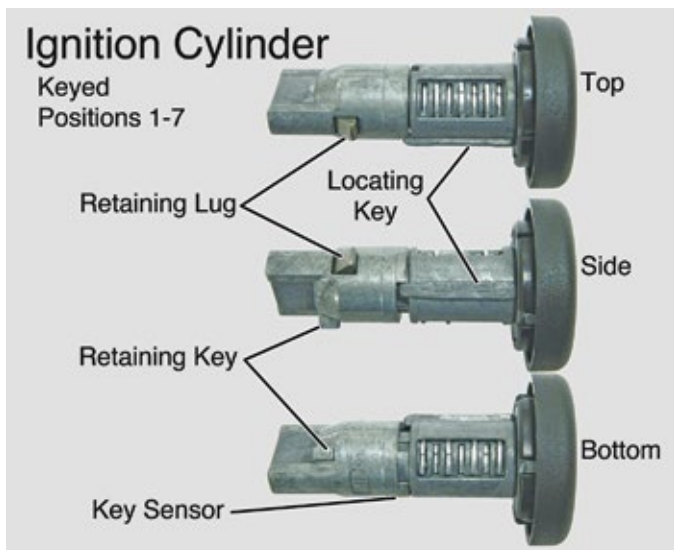


Photo 19

Disassemble the ignition cylinder by depressing the retaining lug below the surface of the Tailpiece. This frees the tailpiece for removal. The retaining lug will spring up as the tailpiece is removed, so be prepared to catch it. Rotate the tumbler cage to align the slot at the rear of the cage with the ear of the key sensor to remove the key sensor. With the working key in the plug, slide the tumbler cage off the rear of the plug. Use caution, as the tumblers are not retained. Re-assemble the ignition in the reverse order. The Cylinder Face Cap snaps over the top of the cylinder plug.

If you will be changing the combination, be sure to observe the L (left) and R (right) hand tumbler placement, (*see photo 20*).

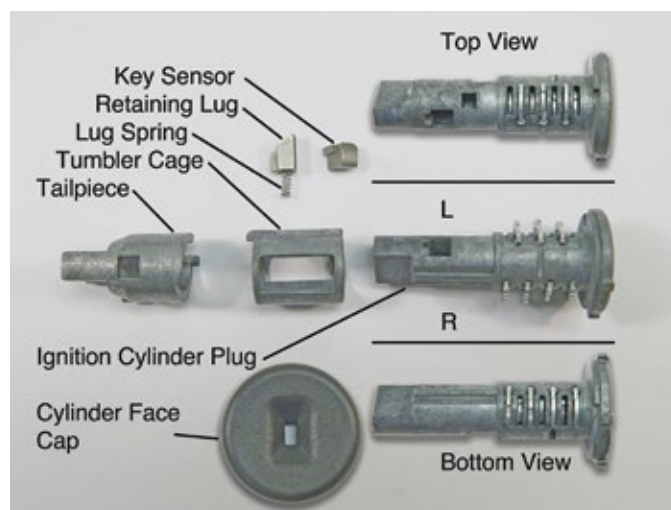


Photo 20

The preferred method of originating, or duplicating a side-milled key is with a side-mill code machine or with a side-mill key machine and pattern keys. If you don't have a side-mill code machine or pattern keys, the Clue-Card™ # 015a has all of the information necessary to create the GM side-milled 10-wafer key, (*see photo 21*).

Clue-Card™ #: 015a, GM HU102 2-track card

Code Series: V0002-5718

Web Dimension: .025"

M.A.C.S.: 3

First used: 2014+ GM & GMC trucks

Work Key: Strattec #5915037 or Ilco EB3-V-HU100 or HU100

Clue™ Pattern Key: Ilco 1323L (Mosler Blank)

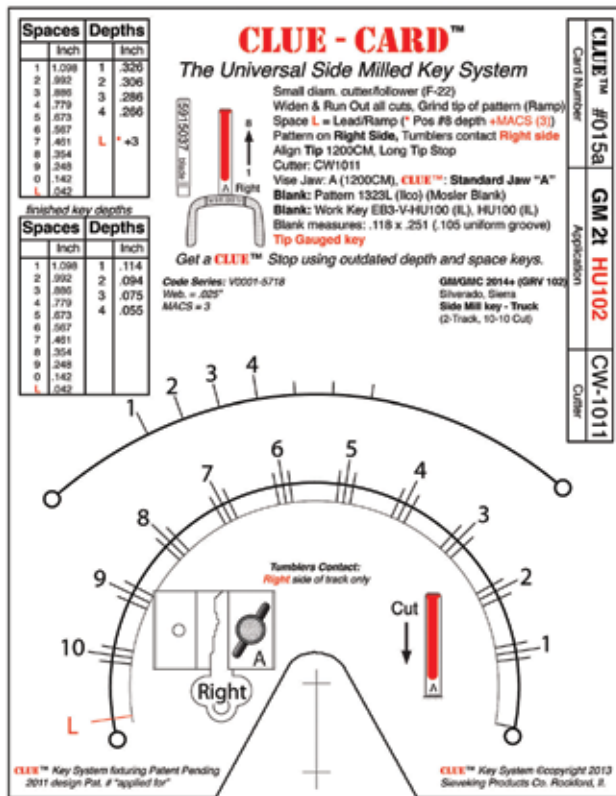


Photo 21

Gauging: Tip Gauged Key

Spaces (from Tip)

1	1.098
2	.992
3	.886
4	.779
5	.673
6	.567
7	.461
8	.354
9	.248
0	.142

Depths

1	.114
2	.094
3	.075
4	.055

The Pattern key is "Tip Gauged" in the HPC 1200CM code machine, using the horseshoe tip gauge. (Long tip gauge). All pattern keys are cut using the CW-1011 cutter and Vise Jaw "A," (see photo 22).

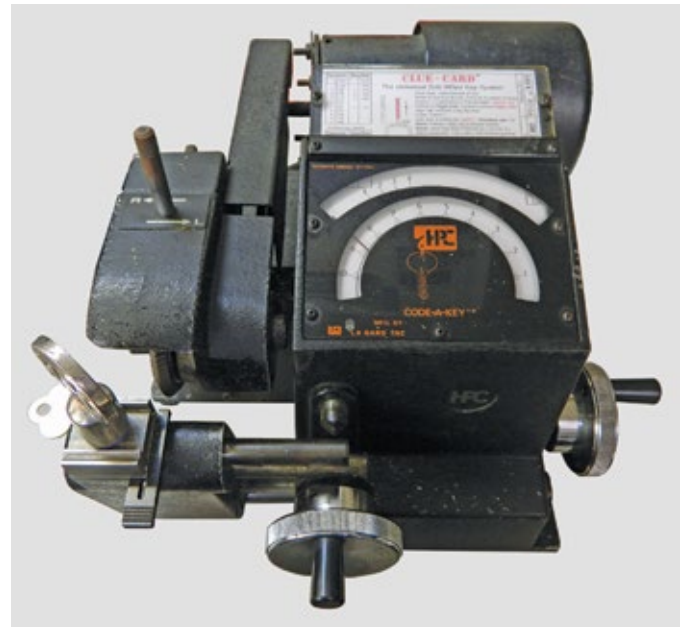


Photo 22

The Pattern Key is cut using the determined biting. All cuts are widened and "run-out" to produce the laser cut pattern. Finish the "Ramp" at the tip of the key and de-burr the pattern. From the photo, you can read the relative heights of the biting pattern on the pattern key, (see photo 23).

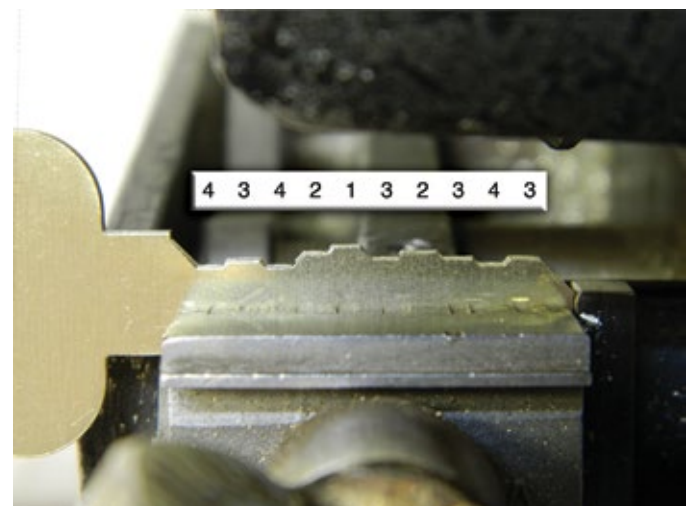


Photo 23

The Clue-Card™ calls for the pattern to be mounted at the "Right" side of the Clue™ fixture, using vise jaw "A." Tip Gauge the pattern in the fixture by holding it

against a flat surface and tighten the clamp screw, (see photo 24A).

Check the gauging to be sure that the pattern is flush with the edge of the Clue™ fixture, (see photo 24B).

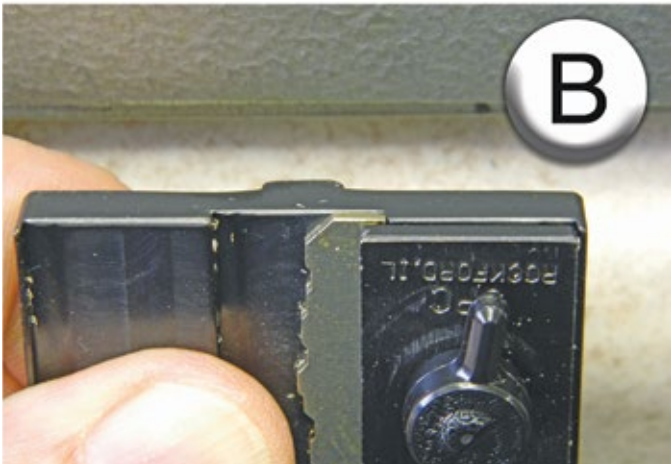
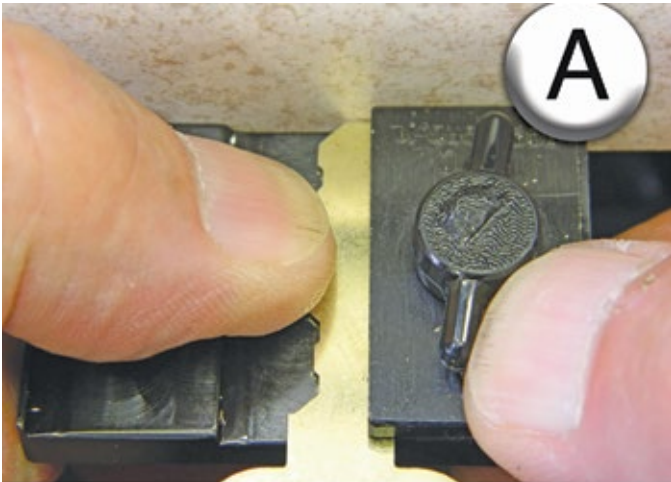


Photo 24A and 24B



Photo 25

Tip Gauge the Clue™ fixture and the key to be cut, using the same gauging slot. In this case, we are gauging with the rear slot. We are ready to cut the key, (see photo 25).

The cut key can be easily read. From Bow to Tip, the bitting is 4-3-4-2-1-3-2-3-4-3. The only “real test” of cut key is to try it in a cylinder. Test the key in a cylinder, to confirm the bitting and accuracy of the cuts, (see photo 26).

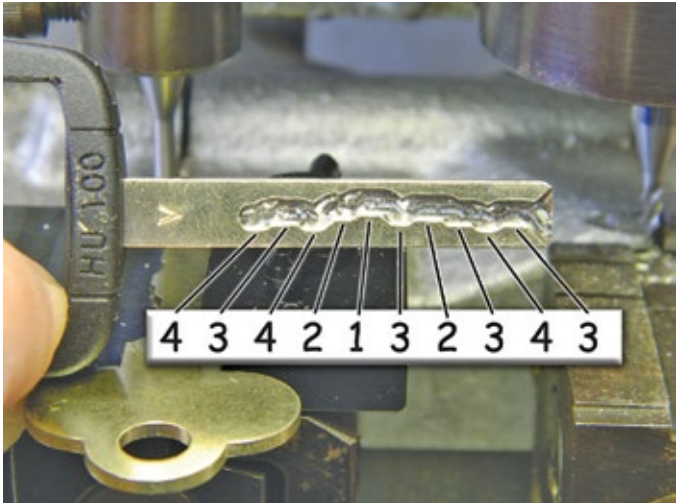


Photo 26

Tumbler Usage (and Strattec PN#s)				
Cylinder	Stratt. PN#	# Tumblers	Positions	Graphic
Ignition:	7024124	7 tumblers	1-7	X X X X X X •••
Door:	7022907	6 tumblers	5-10	•••• X X X X X X
Tailgate:	7023874	6 tumblers	1-6	X X X X X X ••••
Dash Stowage (GB):	7012921	4 tumblers	7-10	•••••• X X X X
Stowage:	7024115	6 tumblers	1- 6	X X X X X X ••••
Tire Lock:	7023873	6 tumblers	1-6	X X X X X X ••••

Other Interesting Key/Code Information

The 1st space depth is always the same as the 9th space depth.

The 2nd space depth is always the same as the 10th space depth.

(If you know the bitting of spaces 9&10, you have the bitting for spaces 1&2.).

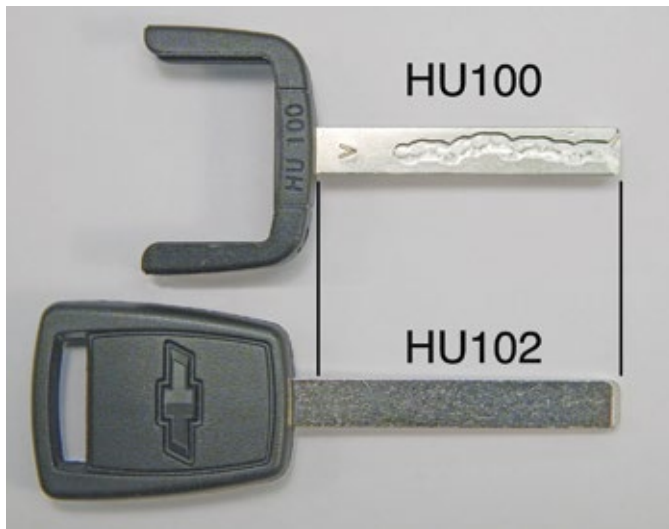


Photo 27



Photo 28

Making a Key when No Working Key is Present (in order of preference)

1. Pick to remove the ignition cylinder and discover the key code.
2. Remove the Tail Gate, Stowage or Spare Tire cylinder to find 6 tumblers in positions 1-6. With positions 1 & 2 known, we know that positions 9 & 10 will be the same as positions 1 & 2. You have bitting for positions 1, 2, 3, 4, 5, 6, 9 and 10. Progress cuts 7 and 8 to find the complete bitting or use a code search program to limit the progression.
3. Remove the Door Cylinder to find 6 tumblers in positions 5-10. With positions 5-10 known, we know that positions 1&2 will be the same as positions 9 & 10. You have bitting for positions 1, 2, 5, 6, 7, 8, 9 and 10.

Progress cuts 2 and 3 to find the complete bitting or use a code search program to limit the progression.

Calling to find/purchase the key code was not considered in this writing. It, however, remains an option.

The HU100 key is slightly shorter than the new HU102 blank. The short key will operate the door and ignition cylinders, but the ignition cap and the door trim piece interfere with full entry of the key into the cylinder.

National Auto Lock (Michael Hyde) has a work key, PN# NS-GM-HU100, which has the added length to operate these cylinders without interference, (see photo 27).

The vehicle is delivered with cut keys and separate fobs. The fobs should program in as the key is programmed. A “paper” code tag accompanies the key sets, (see photo 28).

Key Programming

I am not aware of any current software that addresses the new 2014 GM configuration.

Keys may be programmed into the security register using the standard GM OBP (Onboard Programming) sequence. The programming procedure is: three ten minute waits. The OEM (Dealer) key will Onboard Program.

To introduce a second key, when a working key is available, turn the ignition to the ON/ RUN position with the working key. Wait until the security light extinguishes, then remove the working key. Immediately insert and rotate the key to be programmed to the ON/RUN position. When the security light extinguishes, the new key has been programmed.

This vehicle was a pleasure to service, and should pose no special problems for the professional locksmith.

*“With the right tools and the right training,
they’re all easy.”*

2014 Chevy Silverado 1500

Manufacturer: General Motors
Model: Silverado & Sierra
Year: 2013 - 2014
Code Series: V0002 - V5718
Side Mill - Groove 102

V0002 4423211144
V0003 4321232343
V0004 4321331143
V0005 2134322121
V0006 2243312322
V0007 2134232321
V0008 1323134113
V0009 1323442313
V0010 3124243131
V0011 3231134132
V0012 3124212131
V0013 2422344124
V0014 2423134124
V0015 4212442342
V0016 4232213342
V0018 3421113334
V0019 3421223334
V0020 1124313311
V0021 1224244312
V0022 1124221311
V0023 4323432143
V0024 4324233143
V0025 2231324322
V0026 2321234123
V0027 2224344122
V0028 1334242313
V0029 1342113313
V0030 3212234132
V0031 3242312132
V0032 3211242332
V0033 2431324124
V0034 2432132324
V0035 4222443142
V0036 4234433142
V0037 4222311342
V0038 3423243134
V0039 3423423134
V0040 1134424111
V0041 1234342112
V0042 1134312311
V0043 4332423143
V0044 4333242143
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V0047 2242344122
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V0049 1344421113
V0050 3224323132
V0051 3311243133

V0052 3224231132
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V0059 3432421334
V0060 1223423112
V0061 1243434112
V0062 1223243112
V0063 4343223143
V0064 4343421343
V0065 2313242123
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V1735	4232211342	V1798	1134213311	V1859	2443224124	V1922	3223423132
V1736	4312122143	V1799	1134321311	V1861	4321212343	V1923	2443123324
V1737	4232431342	V1800	2422111324	V1862	4234431342	V1924	2443233124
V1738	3434243134	V1801	2434422124	V1863	4211243342	V1925	4234211142
V1739	3442132334	V1802	2422333124	V1864	4212213342	V1926	4322431143
V1740	1234212312	V1803	2243323122	V1865	1312134313	V1928	4234231342
V1741	1321334113	V1804	2243442122	V1866	1344221313	V1929	4242342142
V1742	1234234112	V1805	3422112334	V1867	1321343113	V1930	2113244321

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V1935	3311234133	V1998	4231212142	V2092	3213342432	V2181	2111342421
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V1937	3313124133	V2000	3122421331	V2096	4331223443	V2183	1232323412
V1938	3313421133	V2001	1134223211	V2098	3444331234	V2186	3112221431
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V1941	1212124312	V2005	1343423213	V2100	1232444212	V2192	3424331234
V1942	1123244311	V2007	1343324213	V2101	1312133413	V2193	3231243232
V1943	4323443143	V2009	1243334212	V2105	2232113422	V2194	3232132432
V1945	2312342123	V2012	2443111224	V2106	2324313223	V2195	4432313444
V1946	2343443123	V2013	2312343423	V2107	2231334422	V2196	1131244411
V1947	2333442123	V2014	2313212423	V2108	2112343221	V2197	4432212444
V1948	2312423123	V2015	4211332442	V2110	3233122432	V2198	4313322443
V1949	2334221323	V2017	4211321242	V2111	3324312233	V2199	4313423443
V1950	3433442134	V2018	3313222433	V2112	3232134232	V2200	1342233413
V1951	4221343142	V2019	3313442233	V2114	3113244231	V2201	2123134221
V1952	3442213134	V2021	1221231412	V2116	4343132443	V2202	1342134413
V1953	3342232133	V2022	1123324211	V2117	4313434243	V2203	1242113412
V1954	3342421333	V2024	4332213243	V2118	4213323242	V2209	2311124223
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V1956	1234311312	V2028	1312432413	V2120	1242331212	V2212	3442133234
V1957	1234331112	V2029	1313244413	V2121	1323212413	V2214	3244212432
V1958	1124322311	V2030	3113442231	V2123	1132322411	V2215	1121234211
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V1961	3321224133	V2034	2333122423	V2127	2311232423	V2218	4323132443
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V1963	3422321334	V2040	1133222411	V2129	2123433421	V2220	1344334213
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V1966	2122444321	V2046	2213134422	V2133	3123234231	V2225	2444312224
V1967	2123124321	V2048	1323443213	V2134	3123423231	V2226	3132131431
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V1969	2134311321	V2050	3124213431	V2136	4423321144	V2231	4232311242
V1970	3422332134	V2051	3221312432	V2139	4231112242	V2233	3321342433
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V1972	3423223134	V2053	2344311423	V2141	1332324213	V2235	1124343411
V1973	3434324134	V2060	1213432212	V2144	1213322412	V2237	1124323211
V1974	3442312134	V2061	1233423412	V2145	2323213423	V2238	4334231243
V1975	1242112312	V2062	1213331412	V2148	2132431221	V2240	2121334221
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V2277	1221312412	V2377	1323342213	V2472	1211342412	V2566	4432133444
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V4500	2311221423	V4586	4443323144	V4688	2343123423	V4779	4213431442
V4501	3123232431	V4587	2231211422	V4689	3213113432	V4784	1244223412
V4502	2311133423	V4588	2233321422	V4691	4231123242	V4785	2123442421
V4503	3432134434	V4589	3121313431	V4692	4231343442	V4787	3113213431

V4788	3121342431	V4904	1213223412	V5028	2311313423	V5117	3132344431
V4794	4331122243	V4909	3213324432	V5030	2311324423	V5118	2321244423
V4796	1342213213	V4910	2344212423	V5031	3433111234	V5120	4212333442
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V4802	3221233432	V4916	1313321413	V5035	1224443212	V5123	1233434212
V4803	4432242144	V4917	2133232421	V5036	1232321412	V5126	1234332212
V4806	4433123444	V4919	3123342231	V5038	1232233412	V5128	3111242231
V4807	2133131421	V4924	4343121443	V5039	2431224424	V5129	3311244233
V4808	2134211221	V4926	4343134243	V5040	2432124424	V5130	3111233431
V4809	2433231424	V4932	3243211232	V5041	3234211432	V5131	4313232243
V4810	2133443421	V4935	4443131244	V5045	4442311344	V5132	4321224443
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V4813	4313124243	V4939	2231321422	V5048	1324211213	V5134	4321213443
V4817	1324242413	V4941	3122112431	V5049	2231231422	V5135	1324422413
V4818	1134232411	V4942	2233431422	V5051	3133211431	V5136	1332223413
V4819	2323132423	V4944	3431342234	V5052	3134234231	V5137	2243313422
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V4821	3134322431	V4948	1223334412	V5055	4423122444	V5143	4431222444
V4822	2331131423	V4949	1342242413	V5057	1221233412	V5144	4431343244
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V4826	4221113242	V4953	3223231432	V5059	2122113421	V5147	2124423421
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